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### 1120.01 General

Basic design level (B) preserves pavement structures, extends pavement service life, and restores the roadway for reasonably safe operations, which may include safety enhancements. Flexibility is provided so that other enhancements may be made while remaining within the scope of pavement preservation work.

The basic safety items of work listed below may be programmed under a separate project from the paving project as long as:

- There is some benefit to the delay.
- The safety features remain functional.
- The work is completed within two years after the completion of the paving project.

If some of the items are separated from the paving project, maintain a separate documentation file that addresses the separation of work during the two-year time period.

For bituminous surface treatment projects on non-NHS routes, the separation of basic safety is not limited to the two-year time period. The basic safety work can be accomplished separately using a corridor-by-corridor approach.

### 1120.02 Basic Safety

For basic design level, include the following items of work:

- Install and replace delineation in accordance with Chapter 1030.
- Install and replace rumble strips in accordance with the design matrices (see Chapters 1100 and 1600).
- Adjust existing features (such as monuments, catch basins, and access covers) that are affected by resurfacing.
- Adjust guardrail height in accordance with Chapter 1610.
- Replace signing as needed; this does not include replacement of sign bridges or cantilever supports.
- Relocate, protect, or provide breakaway features for sign supports, luminaires, and WSDOT electrical service poles inside the Design Clear Zone.
- Restore sight distance at public road intersections and the inside of curves through low-cost measures (when available) such as removal or relocation of signs and other obstructions or cutting of vegetative matter.
- Upgrade bridge rail in accordance with the matrices and Chapter 1610.
- Upgrade barrier terminals and bridge end protection, including transitions, in accordance with Chapter 1610.

- Restore the cross slope to 1.5% when the existing cross slope is flatter than 1.5% and the steeper slope is needed to provide adequate highway runoff in areas of intense rainfall.
- Remove the rigid top rail and brace rails from Type 1 and Type 6 chain link fence and retrofit with a tension wire design (see Chapter 560).

### 1120.03 Minor Safety and Minor Preservation Work

Consider the following items, where appropriate, within the limits of a pavement Preservation project:

- Spot safety enhancements, which are modifications to isolated roadway or roadside features that, in the engineer's judgment, reduce potential accident frequency or severity.
- When recommended by the region Traffic Engineer, additional or improved channelization to address intersection-related accident concerns, where sufficient pavement width and structural adequacy exist or can be obtained. With justification, which considers the impacts to all roadway users, channelization improvements may be implemented, with lane and shoulder widths no less than the design criteria specified in the "Rechannelize Existing Pavement projects" section in Chapter 1110. Consider illumination of these improvements. Document decisions when full illumination is not provided, including an analysis of the frequency and severity of nighttime accidents.
- Roadside safety hardware (such as guardrail, signposts, and impact attenuators).
- Addressing Location 1 Utility Objects in accordance with the *Utilities Accommodation Policy*.

To maintain the intended function of existing systems, consider the following:


- Right of way fencing (see Chapter 560)
- Drainage (see Chapter 800)
- Illumination (see Chapter 1040)
- Electrical
- Pedestrian use (see Chapter 1510)
- Bicycle use (see Chapter 1520)

Examples of the above include, but are not limited to:

- Installing short sections of fence needed to control access.
- Replacing grates that are not bicycle-safe (see Chapter 1520).
- Upgrading electrical system components that require excessive maintenance.
- Beveling culverts.

### 1120.04 Documentation

For the list of documents required to be preserved in the Design Documentation Package and the Project File, see the Design Documentation Checklist:

 [www.wsdot.wa.gov/design/projectdev/](http://www.wsdot.wa.gov/design/projectdev/)